



LLOYD'S CLASS 100 A. 1. WITH FREEBOARD.

N.B. ALL SECTIONS USED THROUGHOUT THE SHIP ARE
REVISED BRITISH STANDARD SECTIONS.

PRINCIPAL DIMENSIONS			
LENGTH	(L)	445'0"	
BREADTH MOULDED	(B)	60'6"	
DEPTH	TO UPPER DE.	40'9"	
LOADED DRAUGHT (FROM TOP OF KEEL)		28'0"	
DEPTH 'D' FOR SCANTLING NUMERALS	(D)	40'75"	

SCANTLING NUMERALS			
1 ST LONGITUDINAL NUMERAL	(LxO)	= 445'0" x 10'75" = 18,134	
2 ND	Lx(B-D)	= 445'0" x 10'25" = 45,056	
PROPORTION TO UPPER DE.	Y/D	= 445'0" / 10'75" = 10.92	

EQUIPMENTS & EQUIPMENT NUMBER			
EQUIPMENT NUMBER	46196		
LETTER	dt		

EQUIPMENTS			
3-BOWER ANCHORS STOCKLESS, COLLECTIVE	232		
STREAM ANCHOR ORDINARY EX-STOCK	233		
STUD CHAIN CABLE	300 FMS	2 1/2" DIA.	
STEEL WIRE FOR STREAM ANCHOR	120	1/4" CIR. (24 WIRES)	
TOW LINE STEEL WIRE	130	5/8" CIR. (DR.)	
HAWSER MANILA	2-100 FMS	8" CIR.	
WARPS	2-100 FMS	8" CIR.	

FORGING & CASTING			
STEM (ROLLED MILD STEEL)		10 1/2" x 2 1/2"	
STERN FRAME AS PER PLAN			

KEEL & SHELL PLATING			
KEEL PLATE		55' x 85' ~ 75'	
BOTTOM		67' ~ 52'	
SIDE		65' ~ 49'	
BOSS		.75'	
FILE SIDE PLATE		.44'	
SHEER STRAKE	63' x 78' (RULE SIZE 5 1/2" x 74") ~ 49'		
BELOW SHEER STRAKE	65' (RULE SIZE 5 1/2" x 70") ~ 49'		

ENGINE CASING			
COAMING PLATE		30' x 34' WHERE EXPOSED	
CASING		26' x 30'	
COAMING ANGLE		3' x 3' x 3/4" 3' x 3' x 3/4"	
STIFFENERS		3' x 2 1/2' x 3/4" 3' x 3' SPACED APART	

DECK HOUSES			
	UPPER DECK	BRIDGE DECK	BOAT DECK
COAMING PLATE	.30	.28	.25
HOUSE PLATE	.25	.25	.25
COAMING ANGLE	6' x 3' x 3/4"	6' x 3' x 3/4"	6' x 3' x 3/4"
TOP	3' x 3' x 3/4"	3' x 3' x 3/4"	2 1/2' x 2 1/2' x 3/4"
STIFFENERS	3' x 2 1/2' x 3/4"	3' x 2 1/2' x 3/4"	3' x 2 1/2' x 3/4"
SPACING	SPACED ABOUT 23" APART		

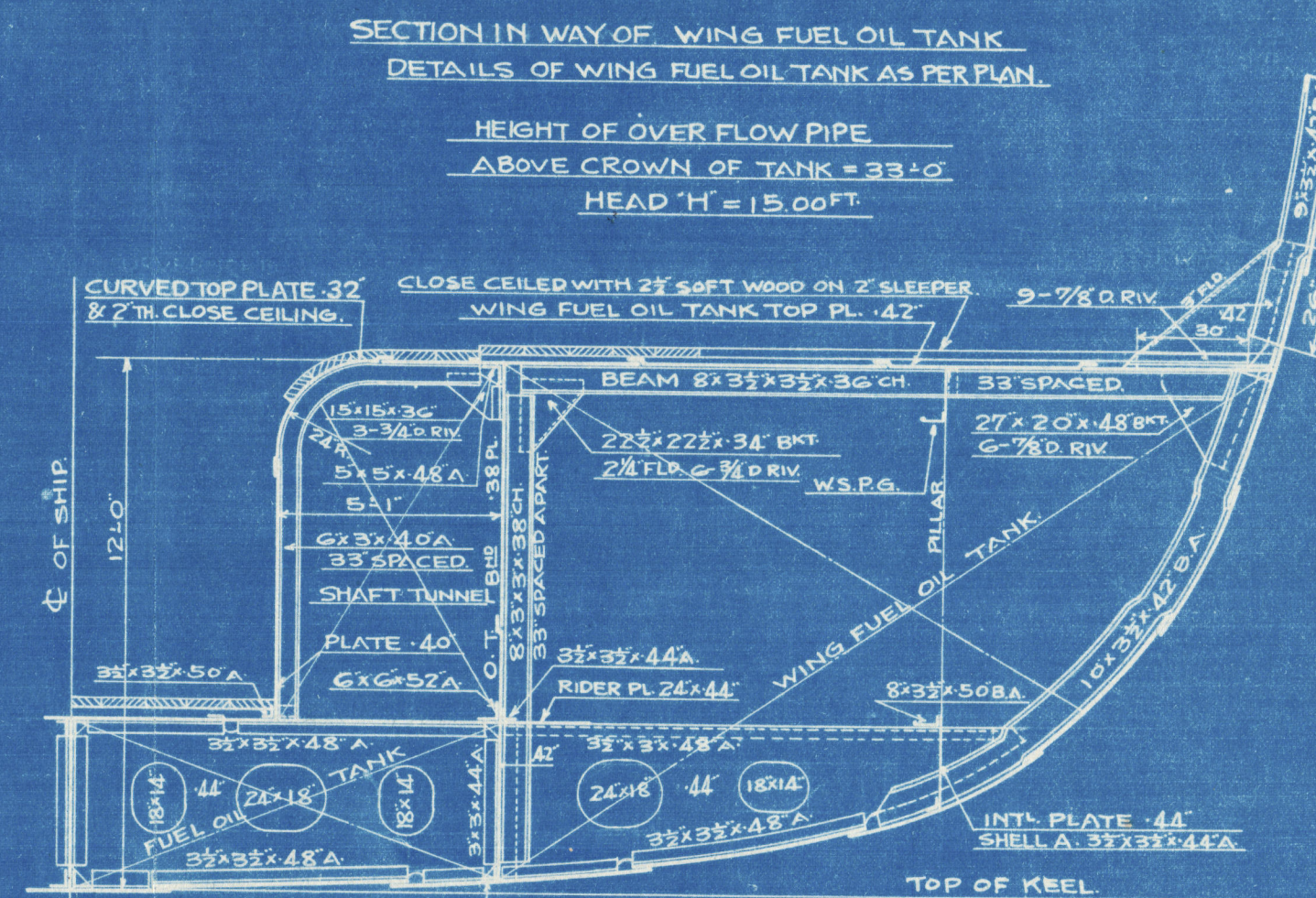
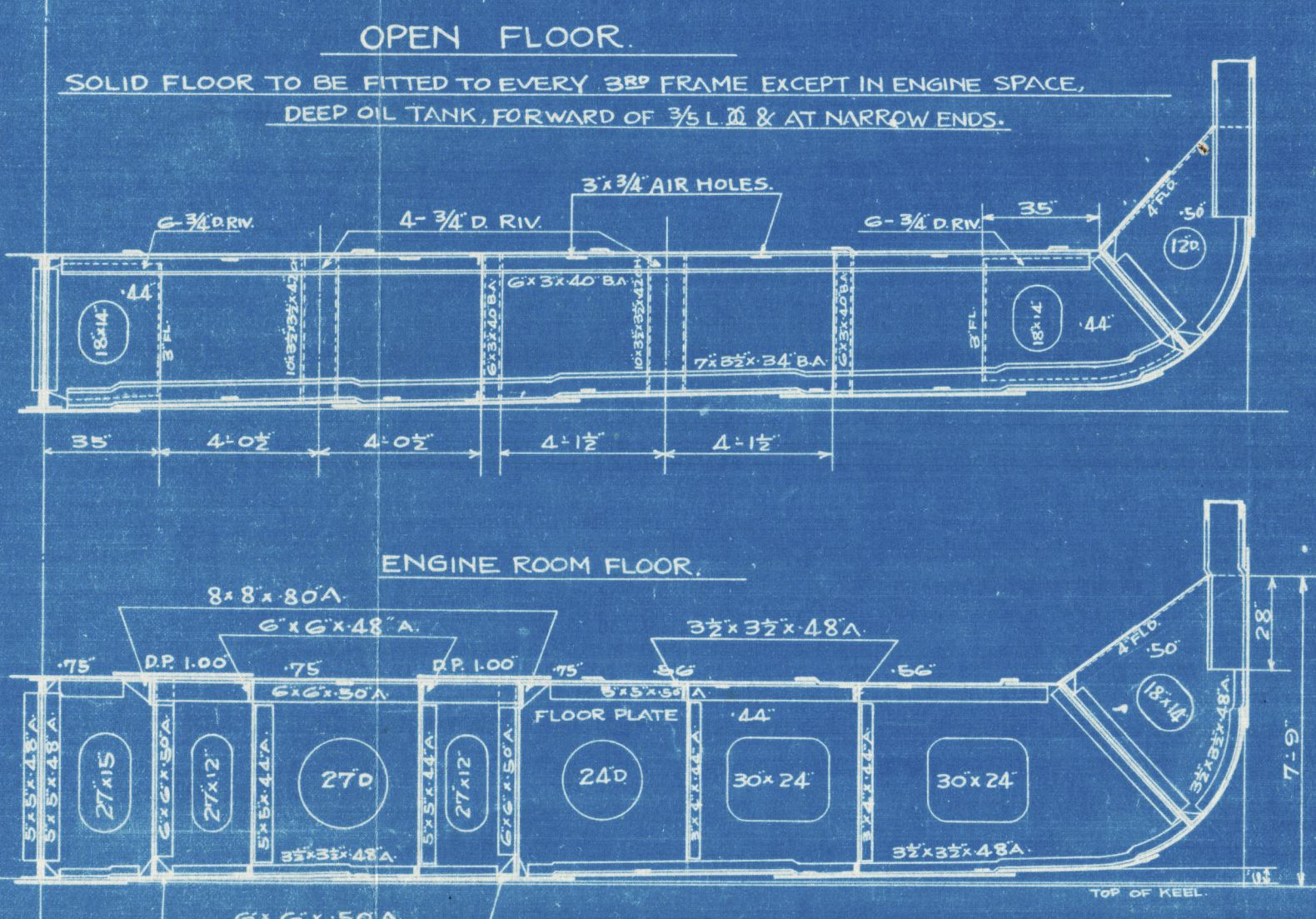
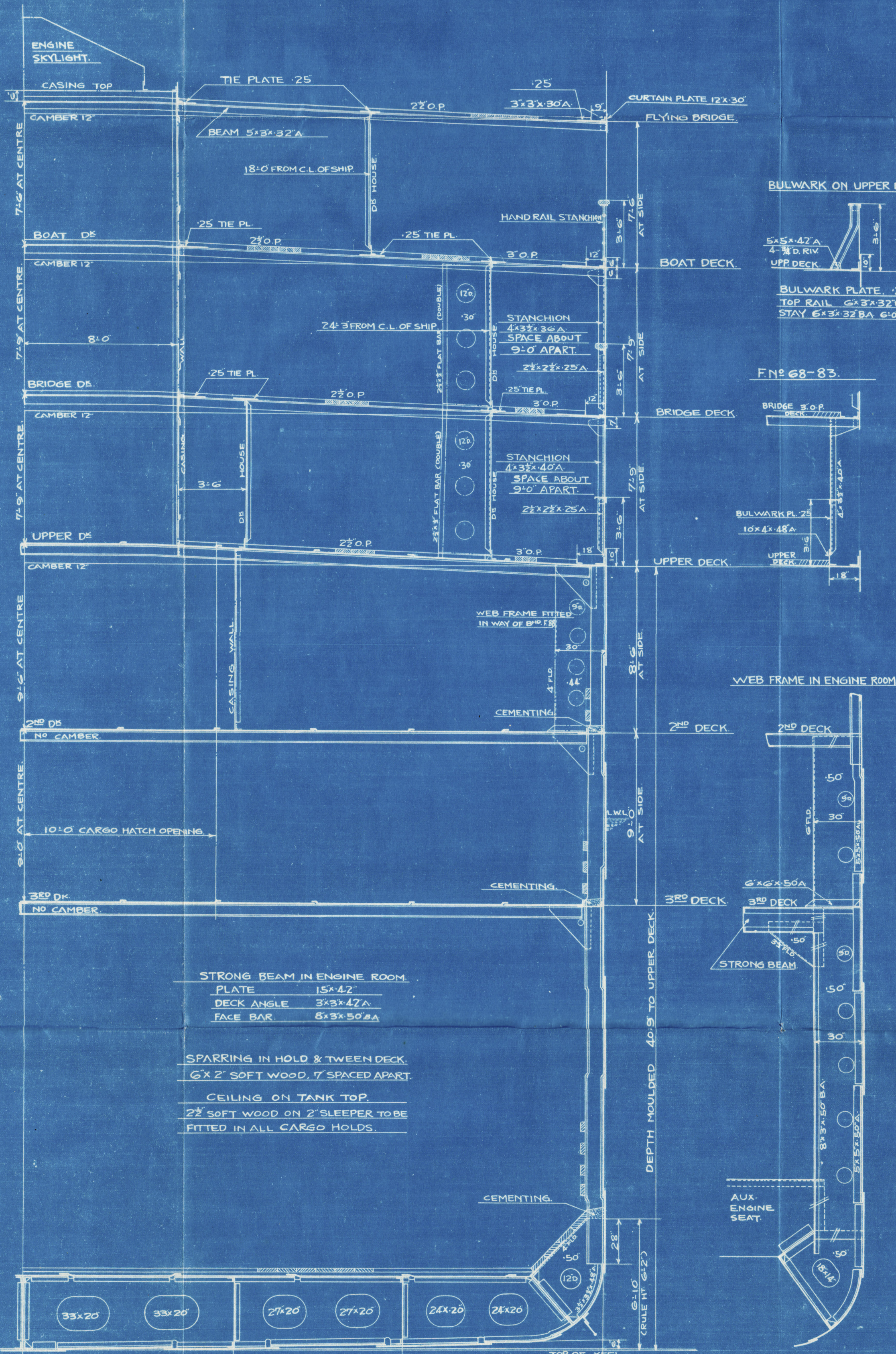
BILGE KEEL (115-G AMIDSHIPS)			
BULB PLATE		10 1/2" x 50"	
CONNECTING BAR		5' x 3 1/2' x 5/8"	
DEPTH OF GIRDER		13'	

DOUBLE BOTTOM			
	1/2 L. @ ENDS	ENGINE SPACE	REMARKS
CENTRE	PLATE	46' x 67' ~ 48'	60' x 62'
GIRDER	KEEL ANGLE	5' x 5' x 6" ~ 60 DA	5' x 5' x 6" DA
	TOP	3' x 3 1/2' x 5/8" ~ 52 DA	3' x 3 1/2' x 5/8" DA
SIDE	VERT. "	3' x 3 1/2' x 48 A	5' x 5' x 48 A
	PLATE	.44'	.44'
GIRDER	TOP ANGLE	3' x 3 1/2' x 48 A	3' x 3 1/2' x 48 A
	BOTTOM	"	"
SOLID	VERT. "	3' x 3 1/2' x 42 A	3' x 3 1/2' x 42 A
	PLATE	.44'	.44'
FLOOR	FRAME	3' x 3 1/2' x 48 A	3' x 3 1/2' x 48 A
	RIV. FRAME	"	"
W.T.	PLATE	.52'	.52'
	BOUNDARY	3' x 3 1/2' x 52 A	3' x 3 1/2' x 52 A
FLOOR	STIFFENER	3' x 3 1/2' x 48 A	3' x 3 1/2' x 48 A
	ML STRAKE	56' x 56' ~ 46'	.75'
INNER	OTHER	.48' ~ 42'	.56'
	MARGIN PL.	40' x 56'	.56'
BOTTOM	TOP SHELL	5' x 5' x 56 A	5' x 5' x 56 A
	PLATE		

(I) DETAILS OF SCANTLING UNDER MAIN ENGINE SEATING AS PER SKETCHES
(NB) 2 TANK TOP PLATES FITTED TRANSVERSELY IN WAY OF BULKHEAD EXCEPT MARGIN PLATE & MIDDLE LINE STRAKE.

STRENGTHENING OF BOTTOM FORWARD
FROM FORWARD OF 3/4 L. @ TO COLLISION BULKHEAD.
PITCH OF RIVET IN FRAME TO BE 5' x 0" (TWO COMPLETE ROW ON BOTH FLANGES). FRAME ANGLE 5' x 5' x 48 FROM MARGIN PLATE TO MARGIN PLATE.
INT'L ADDITIONAL SIDE GIRDER TO BE FITTED AT 4'0" APART & 2" HT. GIRDER EXTENDING AS FAR FORWARD AS PRACTICABLE.
FLOOR PLATE OR INT'L SIDE GIRDERS ARE NOT TO BE FLANGED.
SHELL PLATING, THREE STRAKES NEXT THE KEEL TO HAVE MIDSHIP THICKNESS .67" MAINTAINED (FORWARD TO COLLISION BULK).

RIVETING NOTE (EDGE CONNECTION)			
KEEL PLATE	2R	2R	
BOTTOM PLATE	"	"	
SIDE PLATE	"	"	
SHEER STRAKE	"	"	
BELOW STRAKE	2R	2R	
FILE SIDE PL.	"	1R	
ML STRAKE	2R	2R	
MARGIN PLATE	2R	2R	
UPPER STRINGER	1R	1R	
PLATE	"	"	
ALL OTHER DS PL	1R	1R	
	1/2 L. @	AT ENDS	



DECKS			
	BOAT DECK	BRIDGE DECK	FILE DECK
STRINGER PLATE	27' x 30'	30' x 37'	30' x 37'
ANGLE	3' x 3' x 3/4"	3' x 3' x 3/4"	3' x 3' x 3/4"
SHELL ANGLE			
G.WATER WAY ANGLE	FLAT BAR .46" WELDED		
DE PLATE	.25 TIE PLATE	.25 TIE PLATE	.36"
CURTAIN PLATE	12' x 30'	BULWARK PL. .25	
WOOD PLANK	3' x 3' x 3/4" 3' x 3' x 3/4"	3' x 3' x 3/4" 3' x 3' x 3/4"	

UPPER DECK			
	2ND DECK	3RD DECK	
STRINGER PLATE	6' x 66'	50' x 44'	34' x 47' IN WAY OF DEEP TANK
ANGLE	3' x 3' x 3/4" IN WAY OF FILE	DE PLATE 3' x 3' x 3/4"	
SHELL	6' x 66' - 3' x 3' x 3/4"	3' x 3' x 3/4" - 3' x 3' x 3/4"	3' x 3' x 3/4" (IN WAY OF DEEP TANK)
G.WATER WAY ANG	3' x 2 1/2' x 3/4"		
DE PLATE OPENING	49' WHERE EXPOSED AT SIDE	40' ~ 32'	32' x 47' DEEP TANK
WITHIN	4' x 3' x 3/4"	34' ~ 32'	
WOOD PLANK	3' x 3' x 3/4" 3' x 3' x 3/4"	3' x 3' x 3/4" 3' x 3' x 3/4"	

TANK SIDE BRACKETS			
	NEAR & HOLD	ENGINE ROOM	15% FROM STEM
PLATE			.50'
GUSSET PLATE		CONTINUOUS	CONTINUOUS
TO FRAME		22' x 7/8" D RIV.	15' x 7/8" D RIV.
TO GUSSET		8' x 7/8" D RIV.	7' x 7/8" D RIV.
TO MARGIN PLATE		15' x 7/8" D RIV.	22' x 7/8" D RIV.
VANSE ON MARGIN PL		5' x 5' x 48 A	5' x 5' x 48 A
ON FLOOR PL		5' x 5' x 48 A	5' x 5' x 48 A
GUSSET PLATE		.56"	.48"
NO OF RIV IN WAY TO FRAME		22' x 7/8" D RIV.	15' x 7/8" D RIV.
OF TANK TOP PLATE		20' x 7/8" D RIV.	15' x 7/8" D RIV.

FRAMINGS			
	FRAME SPACE		
BOTH PEAKS		24'	
FORWARD OF 3/4 L. @		27'	
ELSE WHERE		33'	

FRAMING DEPTH (d)			
	ACTUAL (d)	CORRECTED (d)	
IN WAY OF ENGINE ROOM	18' 3"	18' 0"	
HOLD	19' 5"	19' 1"	
WING F.O. TANK	8' 2"	19' 4"	
DEEP FRAME SYSTEM	23' 0"	23' 0"	

RIVETING NOTE (END CONNECTION)			
	1/2 L. @	AT ENDS	
KEEL PLATE	LAPPED & 4R	LAPPED & 3R	
BOTTOM	"	4R	3R
SIDE	"	3R	3R
SHEER STRAKE	"	4R	3R
BELOW	"	4R	3R
FILE SIDE PLATE	"	"	1R
INNER BOTTOM :-			
ML STRAKE	LAPPED & 3R	LAPPED & 2R	
OTHER	4R & 3R	2R	
MARGIN PLATE	"	3R	
CENTRE GIRDER	"	4R	3R
UPPER DE STRINGER PL	"	4R	3R
PLATE	"	3R	1R
2ND DE STRINGER PL	"	3R	2R
PLATE	"	3R	1R
3RD DE STRINGER PL	"	1R	1R
PLATE	"	1R	1R
FILE DE STRINGER PL	"	"	1R
PLATE	"	"	1R
BRIDGE DE STRINGER PL	LAPPED & 1R		
PLATE	"	1R	
BOAT DE STRINGER PL	"	1R	
PLATE	"	1R	

"FINAL PLAN"

M.T. "TOKAI MARU"

Nagasaki Report No. 1743.

MIDSHIP SECTION
SCALE 1/4 INCH TO 1 FOOT
(445'0" x 60'6" x 40'9")
(FINISHED PLAN)



1916/23
1920
1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-

